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## GROUND FAULT DETECTOR FOR LOW-VOLTAGE CIRCUIT

Patent number:

JP2002027660

**Publication date:** 

2002-01-25

Inventor:

ITO KOICHI

Applicant:

**TOENEC CORP** 

Classification:

- international:

H02H3/347; H02B3/00; H02B7/06; H02H3/33; H02H3/34

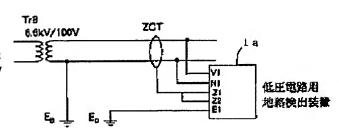
- european:

Application number: JP20000208900 20000710 Priority number(s): JP20000208900 20000710

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## Abstract of JP2002027660

PROBLEM TO BE SOLVED: To provide the ground fault detector for a low-voltage circuit which can surely detect a feeder of a grounded low voltage circuit, when a low voltage circuit connected to a low-voltage side winding of a high/low voltage transformer is grounded. SOLUTION: In the low-voltage ground fault detector 1a, terminals V1, N1 are connected to the voltage line of a low voltage circuit, terminals Z1, Z2 are connected to a zerophase current detector ZCT, a terminals E1 is connected to the type-D grounding electrode. When a line-to-ground voltage inputted across the terminals V1 and E1 becomes lower than a prescribed value, the relevant feeder of the low voltage circuit is detected as being grounded, if a phase of zero-phase current detected by a zero-phase current detector ZCT is leading for the phase of zero-phase voltage obtained based on such line-to-ground voltage.



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